** ANDORRA [non]. 13730, July 2 at 2317, French talk and rock music, another R. Andorra revival, via AUSTRIA; tnx to tip from Jorge Freitas, Brasil on the WOR iog. Last we heard, this month was going to be only on 6180 earlier for Europe, as had not raised money for the N American repeat, and had no prior notice this would be on. Still going at 0007 July 3; or something else on 13730? VG into Maryland remote, S9+10/20 (Glenn Hauser, OK, WOR)

** ANTARCTICA. 15475.98 RCUSB, Saturday July 2 from 1457 checking for LRA36 -- no signals into 4 Argentine nor 1 Uruguayan SDR, but I let the latter run until finally cuts on air S6/S8 at *1517 during music, 1520 canned sign-on, 1522 Antártida song. Switch back to LU4AA SDR which gets it even better, S3/S9, also much better than the other LUs. And I am the only User of this frequency. At 1526, info about Base Esperanza, temp range +8 to -30; winds 50 kph; 8 families overwinter at this base only; Station began in October 1979 as first SW station on the continent --- which is still a LIE, as AFAN 6012 started several years before. 1528 the `Sound of Silence` with new lyrix about Antca. 1532 YL says it`s program #9 of the 2022 season: how time flies, naming staff. 1536 contact info. 1541 This Week in History. 1545 ``Audaz`` ID with frequencies, ``Nacional, la radio pública``. 1546 song. 1549 acknowledge some email. 1552 interview a guy who has some background noise, like roaring surf? 1605 a song about Esperanza but maybe just hopeful not about the base. 1609 ID, about to give phone number? when chopped off the air; and never comes back as I let it play in background while I am mainly listening to `The Score`, cinemusic on KUCO. Not quite a full hour but this time managed a lot more than 18 minutes after sign-on Wednesday. Nor any OTH radar/jamming today. How about another try from 1800? Nothing at 1820 check into Montevideo (Glenn Hauser, OK, WOR)

** BOLIVIA [and non]. 5952.4, July 3 at 0103, Texas Radio SW on 5950 WRMI has a considerable het on the USB side, evitable by LSB tuning. Got to be the sporadically re-active Radio Pio Doce on its signature split frequency. Can`t copy anything tho by tuning 5952.4 on USB (Glenn Hauser, OK, WOR)

** BRAZIL. 9673.17V, June 30 at 0647, RVM with music varying slightly as I try to measure. Has been relatively stable from here to 9673.3 (Glenn Hauser, OK, WOR)

** BRAZIL. 9673.2v, July 3 at 0646, no signal from RVM here, but a JBA carrier a smidgin below 9675, which could be RVM or China. I`m on the less sensitive interior longwire due to storms in my area (Glenn Hauser, OK, WOR)

** BRAZIL. 9673.22V, July 4 at 0638, RVM gospel music wobbling around

here as I try to measure it, good signal and modulation (Glenn Hauser, OK, WOR)

** CANADA. Several FM DX stations from Manitoba and Saskatchewan are intermixed with US in chrono order June 28 under USA [and non]: on 94.3, 92.1, 96.5, 88.1, 91.5, 92.7, 102.3, 90.3 (Glenn Hauser, OK, WOR)

** CHINA. 13530 & 13130 & weaker 13020, July 4 at 1457, the regular CNR1 jammers with pop music (Glenn Hauser, OK, WOR)

** CUBA. 6140, July 1 at 0617, RHC English JBA from S6 to S9 on leapfrog mixing product of 6060 over 6100 another 40 kHz higher since unusually both are still on air plus 6165. Something`s always wrong at RHC. 6060 is S9/+20 and 6100 S9+. Weather report ending, into This Day in History, something pre-revolutionary, what else? in 1957y (Glenn Hauser, OK, WOR)

** CUBA. 13630 & 13770 approx., July 1 at 1455, extremely distorted spurblobs out of 13700 RHC which sounds OK. Something`s always wrong at RHC (Glenn Hauser, OK, WOR)

** CUBA. 11670, July 3 at 0638, RHC English on supposedly Spanish-only frequency scheduled to end at 0500 per Aoki but EiBi shows an English hour at 0500-0600, which is certainly a sporadic error. Only // still on is 6165; while 5040 remains in Spanish. 11670 is S9/+10 but distorted. Something`s always wrong at RHC (Glenn Hauser, OK, WOR)

** CUBA. 15140, July 3 at 1448, RHC playing an American Standard tune very familiar but racking my brain trying to remember the name; S9+10/20 but unfortunately very distorted, boding ill for Esperanto to follow Sunday at 1500 but not rechecked. Something`s always wrong at RHC (Glenn Hauser, OK, WOR)

** CUBA. 12000, July 4 at 0618, RHC English S6/S8, 2 x 6000 which is much stronger. This harmonic appears only occasionally, at transmitter maladjustments? By 0650, these three are unusually all still on: 6000, 6060, 6100 but not 6165. Something`s always wrong at RHC (Glenn Hauser, OK, WOR)

** CUBA. 13651 & 13749 approx., July 5 at 1441, S5/S7 spurblobs extremely distorted with no readable audio, JBM even in FM mode, but telltale F♯ tone. So plus/minus ~49 kHz out of 13700 AM transmitter. Also weaker at X2 = ~98 kHz offsets, 13798 and obscured by 13605 Martí, on 13602. Also X3 = ~147 kHz, JB detectable circa 13554 and maybe 13846 vs 13845 WWCR. Something`s always wrong at RHC (Glenn Hauser, OK, WOR)

** KIRITIMATI. 846, July 1 at 0612, JBA carrier vs summer noise level, no doubt R. Kiribati, London. My most reliable trans-Pacific, or trans-semi-Pacific station (Glenn Hauser, OK, WOR)

** MEXICO. Another sporadic E opening I start hearing with Spanish from the west, UT July 3 on caradio, standard provisos; reference WTFDA FM Database:

97.3 at 0129, Mexmx in $tereo. Nothing further but judging from PTA of others, most likely the only one in Sonora, but in the south, not close to Arizona, and none in BC, AZ, CA or NV:
XHSOS-FM 97.3 EL SIFÓN SON MEX Spanish RANCHERA LA RANCHERA 25.0 kW ERP 76.96 m HAAT 31-17-19 109-40-28 --- 1512 km = 940 mi

96.7 at 0130, ID for ``Nogales, Sonora, XHN#S, 100,000 watts, La Mejor FM, un concepto de MPS``; 0137 Senado PSA, Soriana ad, ``la Mejor en FM``, music:
XHNGS-FM 96.7 HERÓICA NOGALES SON MEX Spanish REGIONAL MEXICAN LA MEJOR 30.38 kW 19.2 m --- 1330 km = 826 mi

93.5 at 0131, ``XHPO, Super 93.5 FM`` ID with street address Juárez algo, zona Centro``. NO list in WTFDA db, but broad search on call, slogan and frequency leads to Puerto Peñasco, Sonora, which is in the NW close to AZ, but wrong frequency. They must have moved! IIRC, top end of Mex FM band is being cleared for community radio stations:
XHPPO-FM 106.1 {sic} PUERTO PEÑASCO SON MEX Spanish SPANISH HITS SÚPER 15.0 kW 62.12 m 31-18-20 113-32-11
However, twits show 93.5 already in 2019y but illustrated with 106.1 logo! Instagram and FB have it on 93.5 and FB with address:
``Blvd. Freemont # 9. Col. Benito Juárez. CP, Puerto Peñasco, Mexico`` --- 1551 km = 964 miles

96.5 at 0153, JBA Spanish tropical song. Not AZ, but probably same city as 93.5:
XHITA-FM 96.5 PUERTO PEÑASCO SON MEX Spanish REGIONAL MEXICAN LA BESTIA GRUPERA 40.56 kW 189.55 m 31-43-43 113-14-09

Several more from AZ, CA this opening yet to be researched (Glenn Hauser, OK, WOR)

** NORTH AMERICA. 6960 USB, July 3 at 0034, ``Dream x 3`` song, classic rock, S3/S4 vs storm noise level hitting S8. Off by 0055 check but then there are 6950 and 6955. Zero logs of 6960 tonight at HF Underground, but 24 h earlier, Ballsmacker Radio was widely reported (Glenn Hauser, OK, WOR)

** NORTH AMERICA. 6950 USB, July 3 at 0055, rough blues song, good signal; 0101 Wolverine Radio ID and SSTV, off by 0107 check. Multiple

logs here including several takes of the same SSTV image at sign-off: https://www.hfunderground.com/board/index.php/topic,99150.0.html (Glenn Hauser, OK, WOR)

** NORTH AMERICA. 6955 USB, July 3 at 0056, romantic/love song segués, much weaker S7 than 6950 Wolverine, past 0113, JBA by 0120. These say it`s Damn Skippy, with several copies of four different SSTV images: https://www.hfunderground.com/board/index.php/topic,99152.0.html (Glenn Hauser, OK, WOR)

** OKLAHOMA. 27184.4 AM, July 2 at 0033, S9+25 of country music as local Enid CBer is again a pirate relaying 103.1 KOFM, as later confirmed by //. At times a big het from another carrier, to jam it? I wonder if the YL DJ realize she now be a worldwide SW broadcaster? Sporadic E in play on 10m beacon band and shortly also on 88+ MHz FM, so should be DXable by skip; but there are a lot more CBers on 27185, blotted out here.

27184.460, July 3 at 1445, there it is again, S9+20 local signal, this time measured exactly (Glenn Hauser, OK, WOR)

** OKLAHOMA. 99.5, July 4 at 1739 UT as a big sporadic E opening is underway, currently from Utah but not yet compiled, something here instead of usual fringe KXBL Henryetta --- Waynoka in western OK mentioned and then, and then --- ``1430 AM, KALV``. That`s in nearby Alva which I can barely hear on 1430 with direxional pattern and/or QRP. This is NOT in the WTFDA FM database: must be a new? translator, as I do find it at FCC FM Query:

``K258GZ OK ALVA USA FX LIC Licensee: REMEMBER RADIO, LLC
Service Designation: FX Translator Station (retransmits signal, different channel than main station) [but NOT specified KALV or any]
Channel/Class: 258D Frequency: 99.5 MHz Licensed
File No.: 0000106074 Facility ID number: 203242
LMS Application ID: 25076f917036859c017045c234d2086b (Assigned numerical ID: 0000106074) Licensed date: 2020-03-11``

Well, that was over a biyear ago; if it`s really been on, had not noticed it before. Translators are often owned by another party as a station makes a relay deal, but KALV 1430 also belongs to Remember Radio (Glenn Hauser, OK, WOR)

** OKLAHOMA. RF 7, July 2 at 1525 UT, no signal from `local` KOCO ``5`` OKC, the ABC affiliate, into my rooftop antenna as routed thru STB DTV converter to one screen nor to my other DTV set. 2118 recheck now there is a BAD signal not enough to decode via STB. Underpowered? Intermittent? *2123 suddenly appears, turned up power or off backup transmitter? Just as an unpredicted little pop-up storm approaches us

from the SW suggesting we should unplug (Glenn Hauser, Enid, WOR)

** U S A [and non]. July 3 at 0037-0053 UT, not getting any sporadic E FM DX, I default to the ham 28 MHz CW beacon band, IDs from WJ5O roster:

28280 at 0037, dash and DE K5AB CENTRAL TEXAS; alternating with: DE K5AB EM01 BEACON. S6 and the SSOB compared to rest very weak and fading, requiring multiple passes to copy. I heard him last summer:
28.280 K5AB C GOLDTHWAITE, TEXAS # 50W, GP VERTICAL Power increase 5 May 16

28224.5 at 0042, long but slower WPM: K5GJR/B plus grid. Also relog:
28.2245 K5GJR C CORPUS CHRISTI, TX # 5W, VERTICAL

28189 at 0044, DE VE4TEN/B x3, grid, fadeouts. I copied as VE4MN/B but must be this, only one dit/dah difference:
28.189 VE4TEN C WINNIPEG, MB CANADA # 2W, BaseLoad Whip QSY from 28.210 MHz 16 Jan 14
VE4TEN Canada flag Canada
Dan Keizer
WINNIPEG, MB R3X 2B2
Canada
VE4TEN - CW beacon being kept on-line beaconing for Ron VE4PL SK. Ron pictured above, with long beacon whip antenna above. Situated on top of a 38 story building in downtown Winnipeg (EN19kv) running 5watts.
https://www.qrz.com/db/VE4TEN

28238 at 0052, fast: VVV DE KB2SEO/B EM## grid, ends with .-.-.
28.238 KB2SEO C ETON, GEORGIA # 10W, VERTICAL Power increase Sept 08
KB2SEO USA flag USA
DREW R McCarsky
PO BOX 463
Eton, GA 30724
USA
(Glenn Hauser, OK, WOR)

** U S A [and non]. WORLD OF RADIO 2144 monitoring: ``WRMI:
9395, static QRN, 0030, 0059 (45343), 0059, June 30 UT [Thu]
9395, slight static QRN, 0130, 0144, 0158 (45333), 0159, June 30 [Thu]
(Lemke, Richard -AB) Good listening, Richard``

Also confirmed UT Thu June 30 at 0030 on WRMI 9395, S9/+10 direct.

Also confirmed UT Thu June 30 at 0130 on WRMIs 9395, S9/+20 and 5010, S5/S8 into E N American remote; 5010 S9/+15 into Bonaire.

WORLD OF RADIO 2145 contents: Antarctica, Bolivia, Brazil, China and

non, Cuba and non, Ecuador, Georgia/Abkhazia, (India), Indonesia, Iran and non, Italy and non, (Japan), Korea South/Korea North non, (Lithuania), Malaysia, México, North America, Perú, Poland, Puerto Rico, Russia, Solomon Islands, Sri Lanka, Taiwan, Tibet non, Ukraine and non, UKOGBANI and non, USA; VHF DX podcast; propagation outlook
() countries mentioned along with others not in order

WOR 2145 is available as of 0040 UT Friday July 1, 2022

(mp3 stream) https://www.w4uvh.net/wor2145.m3u
(mp3 download) https://www.w4uvh.net/wor2145.mp3

Or via http://www.worldofradio.com/audiomid.html
Also linx to podcast services.

The shortwave+ broadcasts should be:

0130 UT Friday WRMI 5850 to NW, 7730 to NE
0330 UT Friday WRMI 7780 to SW
1430 UT Friday WRMI 9955 to SSE [jammed by Cuba]
1815 UT Friday IRRS 7290-Bulgaria to WNW, 14580; 1323 & 918?
& 207?-Italy
2030 UT Friday IRRS 1323 & 918? & 207?-Italy
0130 UT Saturday WRMI 9395 to NNW
0400 UT Saturday WBCQ 5130 to WSW
0700 UT Saturday Unique R, Australia 5035-USB or 3210-USB
1930vUT Saturday WA0RCR 1860-AM
0030 UT Sunday WRMI 7780 to SW
0300vUT Sunday WA0RCR 1860-AM [nominal 0315; as late as 0430]
1324vUT Sunday WMRI Europe via Ch 292 Germany 9670
2000 UT Sunday IRRS 1323 & 918? & 207?-Italy
2230 UT Sunday WRMI 5950 to NNW [to be canceled? still June 26]
0030 UT Monday WRMI 7780 to SW
0300vUT Monday WBCQ 6160v Area 51 to WSW
0030 UT Tuesday WRMI 9395 to NNW
2230 UT Tuesday WRMI 9955 to SSE [jammed by Cuba]
2330 UT Tuesday WRMI 9395 to NNW
1000 UT Wednesday Unique R, Australia 5035-USB or 3210-USB
1030 UT Wednesday WRMI 5850 to NW
2100 UT Wednesday WBCQ 7490v to WSW
0030 UT Thursday WRMI 9395 to NNW
0130 UT Thursday WRMI 5010 to S; 9395 to NNW

Full schedule including AM, FM, webcasts, satellite, podcasts:
http://www.worldofradio.com/radioskd.html

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contribution
via PayPal in US funds, but not necessarily, to woradio at yahoo.com
and says, ``Thanks for your continuing dedication to the radio
listening
hobby. Best wishes for health and good DX``

One may also contribute by MO or check in US funds on a US bank to:
Glenn Hauser, PO Box 1684, Enid OK 73702.

WOR 2145 confirmed, UT Friday July 1 at 0130 on WRMIs: 5850 VG direct;
7730, S9/+20 into Maryland SDR at 0150.

Also confirmed UT Friday July 1 at 0330 on WRMI 7780, S9+5 into
Knoxville SDR.

Missed checking Friday July 1 at 1430 on WRMI 9955; did anyone hear
it? Next: as above (Glenn Hauser, OK, WOR)

** U S A [and non]. WORLD OF RADIO 2145 monitoring: confirmed Friday
July 1 from 1815.5 on IRRS SW via AM Italia, Villa Estense, 1323 kHz
but not on 918 or 207; S9+20 into nearby Noale SDR. But axual SW 7290
via Bulgaria never comes on from 1800.8! Temp or permanent drop? It`s
back on next day Sat July 2 *1800.8 as usual JIP FSN.

Anyhow, earlier on 1323: tune-in 1756 with US political discussion, no
idea what program, until chopped off at 1800 for IRRS ``SW`` sign-on,
and right into Feature Story News including Spotlight. 1805 IRRS ID
again, song. 1813 starts an interview from UN Radio, chopped off at
1815 already for IRRS ID and then WOR. Meanwhile there was a slow SAH
on 1323, maybe with music, from another station, Romania propagating
again? After WOR finished at 1845, music; 1852 `Country Jamboree` DJ
talk, but now there is CCI from algo talking in English. 1900 a tone
from one of them and IRRS` closing Verdi theme.

WOR 2145 also confirmed at 2030 on 1323 only, as Noale is offline, but
S9+10/20 into Vinci/Parma SDR. The CCI could be this as just reported
by Carlos Goncalves, Portugal: ``1323.0 2145-2155 01/7 G Smooth R,
Brighton, 500 W. Songs. 25342 CG``

Also confirmed UT Saturday July 2 at 0130 on WRMI 9395, S9+10/20 into
Maryland SDR; also direct at 0151, noisy S9/+10.

Missed checking UT Sat July 2 at 0400 on WBCQ Radio Angela, 5130; did
anyone hear it?

Also confirmed Saturday July 2 at 1600 on WRN N America webcast.

Also confirmed Saturday July 2 after 1930 on next WRN to N America.

Also confirmed Saturday July 2 ending at 2006 on WA0RCR, 1860 AM, Wentzville MO, S9+9 steady into nearby Warrenton SDR, so started circa 1937.

Not confirmed Sat July 2 at 1948 on WRMI 15770 via Maryland SDR, instead classic rock, another show or fill music? Despite WOR still showing on the System B grid for 1930 Saturday on 15770, while the rest of the day and night, that applies to 9955. However, the System C grid shows Power of the Word Sat at 1930, certainly not what`s on now, tho I think it was last week; as WOR has not really aired Sat at 1930 for several weeks. Next:

0030 UT Sunday WRMI 7780 to SW
0300vUT Sunday WA0RCR 1860-AM [nominal 0315; as late as 0430]
1324vUT Sunday WMRI Europe via Ch 292 Germany 9670
2000 UT Sunday IRRS 1323 & 918? & 207?-Italy
2230 UT Sunday WRMI 5950 to NNW [to be canceled? still June 26]
0030 UT Monday WRMI 7780 to SW
0300vUT Monday WBCQ 6160v Area 51 to WSW
0030 UT Tuesday WRMI 9395 to NNW
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0030 UT Thursday WRMI 9395 to NNW
0130 UT Thursday WRMI 5010 to S; 9395 to NNW
(Glenn Hauser, OK, WOR)

** U S A [and non]. WORLD OF RADIO 2145 monitoring: confirmed UT Sunday July 3 at 0030 on WRMI 7780, S7/S9 direct.

Also confirmed UT Sunday July 3 at 0322 about 12 minutes into so started about 0310, on WA0RCR, MO, S9+10/15 into nearby SDR.

Also confirmed Sunday July 3 ending at 1359 on WMRI Europe via Channel 292, Germany, 9670, VG S8/S9 into NW Ireland SDR, so started on time at 1330. Next:

2000 UT Sunday IRRS 1323 & 918? & 207?-Italy
2230 UT Sunday WRMI 5950 to NNW [to be canceled? still June 26]
0030 UT Monday WRMI 7780 to SW
0300vUT Monday WBCQ 6160v Area 51 to WSW
0030 UT Tuesday WRMI 9395 to NNW
2230 UT Tuesday WRMI 9955 to SSE [jammed by Cuba]
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1030 UT Wednesday WRMI 5850 to NW
2100 UT Wednesday WBCQ 7490v to WSW
0030 UT Thursday WRMI 9395 to NNW
0130 UT Thursday WRMI 5010 to S; 9395 to NNW
(Glenn Hauser, OK, WOR)

** U S A [and non]. WORLD OF RADIO 2145 monitoring: Also confirmed Sunday July 3 at 2000 on IRRS SW via AM Italia 1323 kHz, S9+20/25 into nearby Noale SDR including heavy splash from much stronger adjacents on 1314 and 1332, plus storm crashes.

Also confirmed Sunday July 3 at 2237 the 2230 still on WRMI 5950, S9+10/22 into Georgia SDR with storm crashes.

Also confirmed UT Monday July 4 at 0033 the 0030 on WRMI 7780 S7/S9 into Athens GA SDR, better here than some others checked, even Durango2 and TWR Brownsville.

Also confirmed UT Monday July 4 from 0259 on Area 51 via WBCQ 6159.942, S7/S9 into Maryland SDR, trying to avoid ACI from 6165 RHC thru LSB tuning narrow, or AM narrow, but can`t get rid of it completely as these two stations refuse to distance from each other.

Next:
0030 UT Tuesday WRMI 9395 to NNW
2230 UT Tuesday WRMI 9955 to SSE [jammed by Cuba]
2330 UT Tuesday WRMI 9395 to NNW
1000 UT Wednesday Unique R, Australia 5035-USB or 3210-USB
1030 UT Wednesday WRMI 5850 to NW
2100 UT Wednesday WBCQ 7490v to WSW
0030 UT Thursday WRMI 9395 to NNW
0130 UT Thursday WRMI 5010 to S; 9395 to NNW
(Glenn Hauser, OK, WOR)

** U S A [and non]. WORLD OF RADIO 2145 monitoring: confirmed UT Tuesday July 5 at 0030 on WRMI 9395, S9/+5 into Maryland SDR. Next:
2230 UT Tuesday WRMI 9955 to SSE [jammed by Cuba]
2330 UT Tuesday WRMI 9395 to NNW
1000 UT Wednesday Unique R, Australia 5035-USB or 3210-USB
1030 UT Wednesday WRMI 5850 to NW
2100 UT Wednesday WBCQ 7490v to WSW
0030 UT Thursday WRMI 9395 to NNW
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** U S A. (7489.9v), UT Sat July 2 at 0052 I tune in WBCQ webcast since `AAAWWW` usually gets down to business about this far into the 0000+ show - but Allan is talking about just getting back on air after a power failure in the Fla studio. Unclear whether all the Maine transmitters stayed on in meantime, no SW checked here now nor earlier. Just getting into emails from far-right extremists they attract, on to prayer and off circa 0100 (Glenn Hauser, OK, WOR)

** U S A. 9940, July 3 at 0643, WTWW S9+10 at odd hour for this and // 5085, rock music and talking about it. Ricky Leong, Alberta, had just reported both to the WOR iog:

``During a break from the program "The History of Rock 'n' Roll," WTWW presented a six-minute newscast at 0500 UTC, July 3, 2022, introduced as "the latest news from Ukraine." The audio appears to have been generated by a text-to-speech program and the newscast was entirely "read" from a script, as no actualities (audio clips) were presented. The information contained in the newscast seemed consistent with war reports from major news organizations and wire services over the last two days. The sign-off indicated the report was prepared by a correspondent for the station in Ukraine, identified only by the first name Alexander — actual spelling unknown, obviously. This newscast was repeated some 90 minutes later. Ah yes, I should have mentioned: it was in English. I didn't think to check how well 5085 and 9940 were propagating into eastern Europe at that time. I'd guess 5085 had no chance but 9940 might have been alright, if ionospheric conditions were co-operating. 73, Ricky Leong, Calgary, Alberta, Canada``

What a coincidence that 0500 is the time WRMI used to relay UR1 with `Ukraine: Security Issue` on 7730, but this is something different (Glenn Hauser, OK, WOR)

** U S A. 9940, July 4 at 0645, WTWW with soft rock at S6/S9, still on but not so strong, // 5085 at S9+40 (Glenn Hauser, OK, WOR)

** U S A. 4840, Friday July 1 at 0614, S9+20/30 of dead air from dead Stair on WWCR. This happens time and again around this hour when they are dozing? in Nashville. No such outage via numerous other WWCR,

WRMI, WBCQ, WINB. Something`s wacky at WWCR. Is it a weekly automation mis-programming? No, last time noted was Thursday June 16. Silent like TOMBS (Glenn Hauser, OK, WOR)

** U S A. 5890, July 4 at 0647, this WWCR is missing TOMBS, while 5935 and 4840 remain (Glenn Hauser, OK, WOR)

** U S A. Composers Datebook: Classical music info in 2-minute doses, I try to catch at 1458 UT on KUCO, but often miss. Easily accessible here, including weekends when KUCO does not air it anyway:
https://www.npr.org/podcasts/381443926/composer-s-datebook
with transcripts but you need to hear the music included
73, (Glenn Hauser, OK, WOR)

** U S A [and non]. Rather than much new HF, MF DXing, unless there be another big sporadic E opening, I continue to spend a lot of time compiling a full report of the June 28 VHF FM DX from SD, ND, MN, MB, SK, MT, LA, TX and will publish ASAP (Glenn Hauser, OK, WOR) viz.:

** U S A [and non]. Huge Sporadic E FM DX opening June 28, in fact two of them overlapping for a while from opposite direxions: might have provided double hop if I were not between them. As usual, all heard with my own ears in real time on my own radio, no recordings, no internet access for stream // or anything, until extensive research following three days for this report. On stock Nissan 2004 caradio, no RDS, vertical fender antenna only so no manipulation for DFing or polarization. Ultimately I will capture dozens of stations in SD, ND, MN, MB, SK, LA, TX, MT. Some IDs are circumstantial and will welcome any correxions or ID help. I do not count stations, states or anything, and am not in competition.

Each DX log is a potential learning experience about geography, economy, broadcasting etc., so the details are what make it all worthwhile, unlike MEGO condensed one-liner loggings some editors insist upon. Main reference partially copied for each is the WTFDA FM Database. Distances are approx. licensed city-to-Enid, not site-to-site, from distancefromto.net WTFDA DB provides coordinates for each station, but it`s so much easier to let that site calculate from names, being sure none go haywire. All times strictly UT = CDT +5

Seeing that the MUF is well into the FM band, I go to the garaged car at 1610 UT June 28, tolerating the heat, and start tuning around.

94.1 at 1612, national adstring loud & clear, got to be DX. ``The Legend, 94-1, the rock station in northeast South Dakota for almost four decades``:
KSDN-FM 94.1 ABERDEEN SD CLASSIC ROCK THE ROCK 94.1 100.0 kW 134.0 m

[note that Legend does not appear in the db] 1010 km = 628 mi

94.3 at 1613, British accent with ``mail: 117 Lombard Street, phone 780-94-30``, ``94.3, Now Radio``, rock:
CHNW 94.3 WINNIPEG MB CAN HOT AC 94.3 NOW RADIO 100.0 kW H&V but 100.0 m H only? since V is 0.0? --- 1503 km = 934 mi

94.9 at 1614, YL gospel huxter, British accent with rock music, ``The holy? summer series accessmore podcast`` and K-Love:
KLRJ 94.9 ABERDEEN SD CONTEMPORARY CHRISTIAN K-LOVE 100.0 kW 136.0 m Adult Hits --- 1010 km = 628 mi

94.5 at 1615, rock/praise music, ``God only knows``. God only knows which of these SD it may be: the first one right in Aberdeen like above, but translator supposedly off more than a year; or the next one, also religious, Brookings in E central SD, but only translator and may not be on; or the third one also religious but decent 25 kW power but rather close:

K233BN relays:KVCH 88.7 94.5 ABERDEEN SD silent RELIGIOUS TEACHING CHRISTIAN INFORMATION RADIO 0.0 kWH 0.25 kWV 0.0 mH -2.8 mV VCY America; Silent since 5/25/21 for engineering work - 1010 km = 628 mi
OR:
K233BR relays:KGWD 94.5 also on 94.5 BROOKINGS SD RELIGIOUS TEACHING REAL PRESENCE RADIO 0.25 kW 0.0 m CP for K235DE 94.9 expires 4/2/22 --- 885 km = 550 mi
OR:
KGWD 94.5 SIOUX FALLS SD RELIGIOUS TEACHING REAL PRESENCE RADIO 25.0 kW 88.0 m YOUR FAITH FAMILY KGWD 94.5 FM - Sioux Falls -- 801 km = 498 mi

95.3 at 1618, ``coming up on Tiger 95``, ads, brief fade over KOKC:
K237EL relays:KIJV-1340 95.3 HURON SD HOT AC TIGER 95.3 0.25 kW 0.0 m -- so definitely translator tail-wagger; only Tiger anywhere on 95.3! --- 887 km = 551 mi

95.5 at 1619, ad for ``furniture made in Grand Forx`` --- got to be in ND or maybe MN on the border: would you believe that both of these are exactly the same distance from GF? at 169 km = 105 miles:
KYNU 95.5 JAMESTOWN ND COUNTRY BIG DOG COUNTRY 100.0 kW 197.0 m 98.3KYNU Big Dog Country [related?] --- 1172 mi = 728 mi
OR:
KKZY 95.5 BEMIDJI MN ADULT CONTEMPORARY KZY 95.5 100.0 kW 129.0 m --- 1256 km = 781 mi These except for translators are bigsigs

96.7 at 1620, YL with weather, fading; maybe:
KKCQ-FM 96.7 BAGLEY MN COUNTRY Q COUNTRY 25.0 kW 170.0 m --- 1254 km = 779 mi

OR:
KQZZ 96.7 CRARY ND HOT AC MIX 96.7 38.0 kW 171.0 m - 1297 km = 806 mi

97.3 at 1621, rock/praise music: None at all in ND; only SD no fit; only Manitoban is aboriginal in Dauphin. Only MN religious is outside PTA but possible:
KDNW 97.3 DULUTH MN CONTEMPORARY CHRISTIAN LIFE-FM 97.3 72.0 kW 168.0 m --- 1250 km = 777 mi

99.5 at 1622, CCI to OKie, gospel huxter talk. Not MB or ND; only religious in SD is a Mitchell translator; only religious in MN is:
KBHW 99.5 INTERNATIONAL FALLS MN CONTEMPORARY CHRISTIAN/RELIGIOUS TEACHING PSALM FM 100.0 kW 171.0 m Heartland Christian Broadcasters --- 1405 km = 873 mi

101.3 at 1623, CCI to Wichita about tree damage. Not SD, ND or MB; only full-power in MN is not close but near M/SP:
KDWB-FM 101.3 RICHFIELD MN HD CONTEMPORARY HIT RADIO 100.0 kW 315.0 m --- 1020 km = 634 mi

102.5 at 1624, gospel huxter, maybe plugging a book about ``spiritual biography of rock `n` roll``; music CCI. Manitoba ruled out, three MN full-powers are not religious, nor is one other ND in Devils Lake, so this ND translator?:
K273DJ relays: KFNW-1200 102.5 WEST FARGO ND RELIGIOUS TEACHING FAITH 1200 0.25 kW 56.0 mH only --- 1168 km = 726 mi
or if really a rock station, then?:
KDVL 102.5 DEVILS LAKE ND OLDIES CRUISER 102 100.0 kw 143.0 m --- 1306 km = 812 mi

92.1 at 1625, rock. Only SD is country; not ND; MN has three rockers, this closest:
WMIS-FM 92.1 BLACKDUCK MN ROCK THE RIVER 92.1 107.9 95.3 36.0 kw 176.0 m --- 1290 km = 801 mi
but more likely:
CITI-FM 92.1 WINNIPEG MB CAN CLASSIC ROCK 92 CITI - THE CAPITAL OF ROCK 140.0 m 206.0 m --- 1503 km = 934 mi

94.5 at 1626, license plate renewals due 6/30; City Express building with Godfather`s Pizza, giveaways, rewards, north 2nd and 8th Ave NW; a Northern Plains vet at 226-3816.

Search on clues leads to Aberdeen SD, like this from 2013y:
``Godfather's Pizza will return to Aberdeen next week with the opening of Godfather's Express inside C-Express at 711 N. Second St. Food will be available for takeout or delivery.`` And phone 226-3816 chex for N Plains Animal Health, Aberdeen. There is a 94.5 in Aberdeen, but a silent? translator:

K233BN relays:KVCH 88.7 94.5 ABERDEEN SD Silent RELIGIOUS TEACHING CHRISTIAN INFORMATION RADIO 0.0 kWH 0.25 kWV 0.0 mH -2.8 mV VCY America; Silent since 5/25/21 for engineering work --- but source KVCH itself is in Huron, not Aberdeen --- 1010 km = 628 mi

96.5 at 1629, rock, ``Mix 96``, loud & clear, not Tulsa, surely:
CJPG-FM 96.5 PORTAGE LA PRAIRIE MB CAN CLASSIC HITS MIX 96.5 24.0 kW 73.0 mH only. Again at 1652, rock and YL DJ about Canada Day, ``local weather, Mix 96``; 1653 CCI from a talk station --- 1510 km = 939 mi

100.3 at 1630, sports talk about baseball last night: Target Field, Minnesota; Progressive Field, Cleveland; ``Our Twins`` so must be from MN -- unless on a national ESPN or other sports network show? MN only from the SE:
KFXN-FM 100.3 MINNEAPOLIS MN HD SPORTS KFAN SPORTS RADIO FM 100.3 98.0 kW 281.0 m KFAN Minnesota's Sports Station KFAN Minnesota's Sports Station Talk [KFAN is on 1270 in Rochester] - 1030 km = 640 mi

At this point I had not realized another Es opening from the SSE was coming up as you will soon see below, so possibly if on ESPN rather than local:
KLRZ 100.3 LAROSE LA SPORTS 100.3 ESPN 89.0 kW 178.7 m THE FLAGSHIP STATION OF THE PELICANS --- 1031 km = 640 mi
not to mention an OKie I never hear:
KJCM 100.3 SNYDER OK THE SPORTS ANIMAL 18.0 kW 117.0 m --- 216 km = 134 mi

107.5 at 1635, Sue`s LOUISIANA Health.com, ``107-Jam``, soft rock/rap and 1638, ``The People`s Station, 107 Jam:
KJMH 107.5 LAKE ARTHUR LA URBAN AC 107.5 JAMZ 50.0 kW 141.0 m --- this is close! 852 km = 530 miles

88.1 at 1639, French Canadian, M&W conversation about police en Ontario, tribunale; migrants jumping the wall into Melilla:
CKSB-10-FM relays:CKSB-1050 88.1 WINNIPEG MB CAN French NEWS/TALK ICI RADIO-CANADA PREMIERE 100.0 kW 223.0 m --- 1530 km = 934 mi

91.5 at 1641, classical harp, orchestral music. Not Canada, but:
KPRJ 91.5 JAMESTOWN ND HD CLASSICAL PRAIRIE PUBLIC RADIO 18.5 kW 108.0 m --- 1172 km = 728 mi
OR:
KQMN 91.5 THIEF RIVER FALLS MN HD CLASSICAL CLASSICAL MPR 84.0 kW 199.0 m - Minnesota Public Radio --- 1311 km = 814 mi

91.9 at 1643, Sonlifetv.com, Family Worship Center = KBDD Winfield KS, near OK, normally inaudible or JBA - I would like to think this could be backscatter sporadic E rather than just a groundwave fluke or airplane scatter --- direct: 123 km = 77 mi --- Has sporadic E

backscatter been observed or verified under any circumstances?

92.9 at 1645, owner of Kia of Lake Charles. Another close one from a town nearby to the east:
KHLA 92.9 JENNINGS LA CLASSIC HITS 92 9 THE LAKE 30.0 kW 195.0 m --- 842 km = 522 mi

93.5 at 1647, about Canada Day, Pémbina Valley events, ``The Eagle 93-5``, southern Manitoba ads, Winkler, rock:
CJEL-FM 93.5 WINKLER/MORDEN MB CAN SOFT AC EAGLE 93.5 100.0 kW 52.0 mH only --- Winkler: 1422 km = 884 mi; Morden: 1423 km = 883 mi

93.1 at 1648, dead air vs CCI, one or other is Pratt KS, or DX

100.7 at 1655, gospel huxter, tough for anything adjacent to local 100.9 KGWA translator. Not MB, MN or SD, but maybe ND:
KLDQ 100.7 HARWOOD ND CONTEMPORARY CHRISTIAN K-LOVE 40.0 40.0 100.0 100.0 47-08-43 96-58-18 2D6A K-LOVE Adult Hits --- 1180 km = 733 mi
OR more likely non-musical from opposite, west of Lake Charles LA:
KKHT-FM 100.7 LUMBERTON TX RELIGIOUS TEACHING 100.7 THE WORD 100.0 kW 595.0 m --- 762 km = 474 mi -- see also 1734 log below

91.5 at 1700, news about Kayaks on Assiniboine river, Manitoba COVID backlog:
CKLQ-FM relays:CKLQ-880 91.5 BRANDON MB CAN COUNTRY Q COUNTRY 100.0 kW 325.6 m --- 1507 km = 935 mi

104.7 at 1703, ``Star Spangled Banner`` slow version by soprano, odd time, probably not Canadian, or a noontime tradition on some UStation? Maybe just The Bull, Ponca City OK: should check again

92.7 at 1709, classical music; not MN, ND, SD, LA or TX, therefore:
CBWS-FM relays:CBW-FM 98.3 92.7 BRANDON MB CAN VARIETY CBC MUSIC WINNIPEG 90.0 kW 297.7 m --- 1507 km = 935 mi

95.5 at 1710, soft rap unID; 96.3 at 1711 hard rap unID

95.3 at 1711, about N Dakota weather, temps, lowest 56 at Devils Lake, in ``The Lunch Rush`` show. Search on that leads right to:
KKWZ 95.3 RUGBY ND ADULT CONTEMPORARY 6.0 kW 45.0 m --- 1343 km = 834 mi

93.7 at 1714, promo Sept 23-24 big concert in Las Vegas NV, iHeart thing also heard on numerous other stations, (701) AC = ND, plug iHeart employment opportunities; 838-4504 for cleaning; 1718, Z-94 ID; CCI from Spanish! music. 1723, Z-94 again in ND, z94radio.com
KIZZ 93.7 MINOT ND CONTEMPORARY HIT RADIO Z-94 100.0 kW 169.0 m --- 1343 km = 834 mi

93.3 at 1719, rapid Spanish CCI mix Jake OKC. Most likely in SE TX: KQBU-FM relays:KLAT 1010 93.3 PORT ARTHUR TX Spanish SPORTS TUDN 93.3 / 1010 97.0 kW 595.0 m --- 813 km = 505 mi

92.9 at 1720, Ziprecruiter ad, Victoria`s Secret podcast, NewsNation, AccuWeather: highs & lows 84/52/93/61... and now 76; ``best of the 80s and 90s``, jingle only: ``92.9``. Not Canada and temps = not TX. Not KKJM St Joseph MN Christian. Not KXXL Grand Forx ND branded as XL93. Most likely:
KYYY 92.9 BISMARCK ND ADULT CONTEMPORARY MIX 92.9 100.0 kW 301.0 m
And NWS archive for Bismarck confirms the 76 temp! in CDT:
28 12:52 NE 14 G 23 10.00 Fair CLR *77* 51 78 55 40% NA 78 30.15 1020.7
28 11:52 E 13 G 21 10.00 Fair CLR *76* 50 40% NA 78 30.16 1020.8 --- 1182 km = 735 mi

###

96.7 at 1724, Spanish, for May`s Liquor, Beer and Wine; ad for Juan Matheney? CPA at (903) AC. 1725 Tyler ads, Audacy.com promo, right into ad in English, 1727 State Farm, YL SS for Home Depot; ``La Invasora`` ID, temps, phone interview with number 5x: (903) 646-4102. ``Lo que la gente pide; quiere``. 1729 ``La Invasora 96.7 y en 107.9``, song. 903 AC = Tyler and NE TX. May`s is in Malakoff, SW of Tyler on way to Corsicana, but also in Winona close to Tyler on other side. No doubt whatsoever that this is:
KOYE 96.7 FRANKSTON TX USA Spanish REGIONAL MEXICAN LA INVASORA 92.3 & 96.7 50.0 kW 150.0 m //KTLH 107.9

And no doubt it IS SPORADIC E at an extremely close distance, which is just as rare as an extremely far distance! Indicating a very strong opening. 530 km = 329 miles!!! In all my sesquidecades of VHF DXing, don`t believe I`ve ever had any Es closer on TV or FM. This is also corroborated by other close logs above and below from LA and TX but not this short.

###

97.5 at 1730, Veritex Community Bank, Houston Rockets sports talk: That bank has many branches in the Houston area and Metroplex DFW:
KFNC-FM1 relays:KFNC 97.5 97.5 HOUSTON TX SPORTS ESPN 97.5 2.0 kW 0.0 m 29-49-06 95-01-04
KFNC 97.5 MONT BELVIEU TX HD SPORTS ESPN 97.5 3.0 kW 172.0 m 29-46-07 95-01-05 -- note original and booster are only 1 second of latitude and longitude apart. Mont Belvieu just east of Houston on I-10 --- 779 km = 484 mi

99.3 at 1733, screaming gospel huxter, CCI probably with Ponca City: due to SE TX PTA, I figure it`s this out of Houston:
KDER relays:KHCB-FM 105. 99.3 COMSTOCK TX RELIGIOUS TEACHING KEEPING HIM CLOSE BY 50.0 kW 103.0 m Houston Christian Broadcasters --- until I realize Comstock is way out west on the Rio Grande beyond Del Rio. What else? No fits for MB, SK, ND or MT. There is a Louisiana station but presumably more musical than preaching and on the Miss in NE LA:
KQJO 99.3 ST. JOSEPH LA URBAN GOSPEL/BLUES 14.5 kW 132.0 m --- 788 km = 489 mi
OR even maybe this not noticed before but horizontal vs my vertical:
KHDD-LP 99.3 OKLAHOMA CITY OK RELIGIOUS TEACHING 0.0447 kWH only 44.5 mH only --- 108 km = 67 mi to downtown, but OKC is quite expansive so if it were certain would need to locate it exactly

100.7 at 1734, M&W conversation on family relationships -- see 1655 entry above, ND or TX. With vertical antenna, no DFing

102.3 at 1735, rock, YL DJ Kimberly, June almost over, school lunches, ``the southeast, disooverestevan.com Sun 102 weather`` highs & lows: 24/15/28/24/25/26 ``for Discover Estevan``:
CHSN-FM 102.3 ESTEVAN SK CAN EASY LISTENING SUN 102.3 100.0/43.0 kW 131.8 m Top 40 {sic} --- 1477 km = 918 mi

106.1 at 1739, adastraradio.com, Kix 106, Hutchinson, i.e. fringer:
KXKU 106.1 LYONS KS COUNTRY KICKS 106 100.0 kW 200.0 m adastraradio.com Your Hometown Radio Stations --- It seems stations on 96 or 106 find it almost irresistible to monicker themselves KIX or MIX. How about DIX, FIX, HIX, LIX, NIX, PIX, TIX, VIX, or WIX...?

88.1 at 1740, Spanish amid CCI

88.9 at 1741, rock CCI to Okie K-LOVE

90.3 at 1742, (306) area code, Indian language! CCI to OKie huxter:
CJLR-FM-4 relays:CJLR-FM 89.9 90.3 REGINA SK CAN ABORIGINAL MBC FM 43.0 kW 190.0 m MBC-FM Country --- 1653 km = 1027 mi

90.7 at 1743, English talk vs heavy 90.5/90.9 ACI

92.1 at 1745, traffic jam report in CCI, max? Maybe Houston area:
KROI 92.1 SEABROOK TX GOSPEL MUSIC PRAISE 92.1 102.1 HD2 35.0 kW 350.0 m 'KMGM' --- 805 km = 500 mi

92.9 at 1746, July 4 event, Bicentennial Park in Baytown; State Farm. 1748 ``biggest --- in country, 93-Q``:
KKBQ 92.9 PASADENA TX HD COUNTRY THE NEW 93Q 93.7 kW 585.0 m --- 786 km = 488 mi

92.9 at 1747, Spanish gospel huxter CCI to above: only in SE TX PTA near Port Arthur/Beaumont:
K225CN relays:KBPO-1150 92.9 PORT NECHES TX Spanish RELIGIOUS RADIO VIDA 0.15 kW 24.0 mH only --- 801 km = 497 mi

93.1 at 1749, weather CCI rock music, ``93-1 The ---``; 1750 ``Eagle 93 has landed``, rock. 1757, weather for Anaconda, Deer Lake, ``Eagle 93 forecast`` by YL: 83/62/87; 1804, Fox ``news``, Duckduckgo app, Highland Tablets; 1805 more Foxnx, CCI; 1807 Foxnx end, Eagle 93 forecast again:
KGCX 93.1 SIDNEY MT CLASSIC ROCK EAGLE 93 100.0 kQ 110.1 m --- 1360 km = 845 mi

88.1 at 1753, January 6 Committee hearing live, maybe just KWOU OK NPR. And nowhere else except 91.7 OK KOSU!

92.3 at 1756, ``rock you`` amid CCI. No hits on rock you as slogan

96.5 at 1759, ``96.5 FM playing ---``; ``X-96 KDZN Glendive``, 1800 CBS News On The Hour:
KDZN 96.5 GLENDIVE MT COUNTRY Z-96 HOT NEW COUNTRY 100.0 kW 151.0 m --- 1318 km = 819 mi

93.5 at 1809, news about gas prices? in Valley, Philips, Roosevelt counties, = Montana; consider EVs: all these are in NE MT surrounding Glasgow, not the other MT much further west in Eureka:
KLAN 93.5 GLASGOW MT ADULT CONTEMPORARY MIX 93 3.0 kW 91.0 m --- 1425 km = 929 mi

at 1814 opening seems to have died, so I QRT for R&R after 2 intense DX hours; but axually QRX as I`m back for a few more a sesquihour later:

93.3 at 1947, (406) area code, address on S 20 St W, rodeo in Billings, Kubota tractors:
KURL 93.3 BILLINGS MT RELIGIOUS TEACHING KURL RADIO 93.3 FM 60.0 kW 213.0 m --- 1370 km = 851 mi

94.5 at 1949, ``Great Falls` best[?] country, 94.5``:
KMON-FM 94.5 GREAT FALLS MT COUNTRY 94.5 MAX COUNTRY 98.0 kW 151.0 m --- 1657 km = 1029 mi

96.7 at 1953, country music, segués at 1956, 1959; finally 2002 YL ID as KZIN-FM, fade:
KZIN-FM 96.7 SHELBY MT COUNTRY K-96 WIDE OPEN COUNTRY 100.0 kW 168.0 m --- 1763 km = 1096 mi

By 2010 UT June 28, ALL GONE, whew! (Glenn Hauser, Enid OK, WOR)

** U S A. Another Es FM DX opening from Michigan, July 2 from 1829 to 1930 UT, yet to be compiled (Glenn Hauser, OK, WOR) Viz.:

** U S A. Sporadic E FM DX opening Saturday July 2 at 1829-1930 UT from Michigan and vicinity, somewhat Lower than last time; on caradio with fender vertical antenna only, standard provisos to which I add: no possibility of side-tuning to even frequencies avoiding QRM; strictly UT:

We start off with a rather confusing situation; perhaps Chris Kadlec can straighten it out.

92.9 at 1829, strong rock/rap. Nothing further here, but based on following logs we look up Michigan:
WJZQ 92.9 CADILLAC MI CONTEMPORARY HIT RADIO Z93 100.0 kW 278.0 m Z93 Today's Best Hits Top 40 --- website is:
https://www.z93hits.com/
but its studio is in Traverse City, not too far but not too close, to Cadillac --- 1369 km = 851 mi

93.5 at 1830, music CCI with Hayes KS fringer. Later at 1855, ``The Rock Station K-L-T``; 1900 ``Rogers City - Alpena, The Rock Station K-L-T``.
WBCM relays:WKLT 97.5 93.5 BOYNE CITY MI ROCK 97.5 WKLT 14.0 kW 283.0 m
The trouble is: Boyne City, just S of Petoskey on the NW coast, is 100+ miles from Rogers City & Alpena on the NE coast. So it relays the KLT station as below on 97.5 yet gives own frequency 93.5. But the 97.5 station is in Kalkaska, just east of Traverse City in the NW. It`s also linked to a 98.9 station but not branded as KLT which applies only to 97.5 and 93.5. Is 98.9 serving RC&A? No, it`s in Petoskey. Boyne City: 1458 km = 906 mi

93.9 at 1830, music CCI with KIMY OK. And at 1841

97.5 at 1831, a poet quoted, maybe the source of 93.5 above. 1848, mattress ad in Traverse City. Great Lakes Land with lots in northern MI:
WKLT 97.5 KALKASKA MI CLASSIC ROCK KLT THE ROCK STATION 32.0 kW 188.0 m 97.5 FM 98.9 FM KLT The Rock Station //WRGZ 96.7 - 1415 km = 880 mi

93.7 at 1833, Lakers, trends in baseball; unlikely residual KSPI OK; 1835, Z-93, YL DJ on blood giving, Michelle Peréz at noon to one; 929-HITS which chex as number for Z-93, not to be confused with anything on 92.9 MHz: https://www.z93hits.com/contact, Traverse City ads, Cherry Festival, Downtown Arts Fest; Tony`s Best Tacos, Z-93. Must be this just S of Traverse City, but not branded as Z-93:

WKAD relays:WMBN-1340 93.7 HARRIETTA MI SPORTS THE TICKET 4.3 kW 119.0 m // W284DF 104.7 --- 1354 km = 841 mi

93.3 at 1834, CCI with Jake OKC

95.3 at 1843, plug event in Kresge Auditorium which chex as Interlochen i.a.; arts fest, Interlochen.org - a classical mecca with arts school. None especially close but outreach probably beyond the WIAA coverage area, like this non-comm down the coast:
WGVS-FM 95.3 WHITEHALL MI NEWS/JAZZ WGVU 88.5 & 95.3FM 2.0 kW 110.0 m Saturday Night Blues LISTEN ONLINE AT WGVU.ORG No Program Type or Undefined //WGVU 88.5 & W237CZ 95.3 [Grand Rapids, but oldies??] Whitehall also correlates with next single log across Lake MI in WI: Whitehall: 1253 km = 779 mi

95.5 at 1844, algo trying to edge in to local 95.7

97.3 at 1845, ``97-3 The Game``:
WRNW 97.3 MILWAUKEE WI HD SPORTS 97.3 THE GAME 15.5 kW 278.0 m Top 40 [sic] --- 1127 km = 700 mi

96.3 at 1858, Bad Credit Blues ad; Ballard`s Plumbing and Heating in Petoskey; vs ACI from 96.1 OKC:
WLXT 96.3 PETOSKEY MI ADULT CONTEMPORARY LITE 96.3 100.0 kW 299.0 m --- 1472 km = 915 mi

94.5 at 1901, 3:01 timecheck, inviting R&R requests, and multi-station ID including WYPV Mackinaw City, too quick to copy all, ``road-runner`` only station for R&R:
WYPV relays:WQON 100.3 94.5 MACKINAW CITY MI CLASSIC ROCK Q 100 50.0 kW 110.0 m // WWMN 106.3 --- 1514 km = 941 mi

97.5 at 1911, ``Werewolf 97.5``, country. Turns out to be the Alva OK station not far from Enid to the NW, but a new name on me. See: https://en.wikipedia.org/wiki/KZLF
``KZLF ("Werewolf 97.5 FM") is a radio station broadcasting an adult hits music format licensed to Alva, Oklahoma, United States.[1] The station is currently owned by Running Wolf Radio LLC, which purchased it from George S. Flinn in 2022.[2]`` ``Human all day - WOLF ALL NIGHT`` see https://werewolf975.com/ --- ex-KPAK. WTFDA has new call but not new branding and non-silent format:
KZLF 97.5 ALVA OK Silent CONTEMPORARY CHRISTIAN 97.5 THE QUAKE 50.0 kW 150.0 m 37-01-27 98-41-22 Silent 3/25/22 equip replacement --- 70 km = 44 mi

96.7 at 1917, ad for waterfront property (877) 333-8830 or https://whiteoakcreekranchtx.com --- TX??? I`ve been getting Michigan but those clues indeed lead to Texas, phone in Decatur which is NW of

Fort Worth. From photos, the ``water`` refers to ponds or lakes or creeks, not seashore! Surely not advertising waterfront property to Michiganders. Closest station to there is on N side of The Metroplex: KTCK-FM 96.7 FLOWER MOUND TX SPORTS RADIO 1310 & 96.7, THE TICKET 90.0 kW 621.0 m All Sports all the time - KTCK The Ticket - //KTCK 1310 --- so this is fluke extended GW and that tall tower helps, not sporadic E. KTCK 1310 being successor to long-lamented WRR --- 381 km = 236 mi

99.7 at 1927, ``Hank FM``, another fringe Okie, but later see there is another same name in adjacent Kansas on same 99.7; beware, but only ours spells HANK backwards: Can anyone think of another station branding by spelling callsign backwards? FHGK sure won`t work:
KNAH 99.7 MUSTANG OK COUNTRY HANK FM 47.0 kW 155.0 m - 112 km = 70 mi
KGHF 99.7 BELLE PLAINE KS COUNTRY 99.7 HANK FM 50.0 kW 147.0 m unhrd

93.1 at 1930, ``93 K-ROCK``, one last gasp of the Es from MI, and one Yooper I heard in previous opening:
WIMK 93.1 IRON MOUNTAIN MI ROCK 93.1 K ROCK 100.0 kW 180.0 m --- 1331 km = 827 mi (Glenn Hauser, OK, WOR)

** U S A. Another sporadic E FM DX opening July 3 at 0129-0210 from Arizona, SE California, yet to be compiled, except for Sonora, see MEXICO (Glenn Hauser, OK, WOR) viz.:

** U S A. Sporadic E FM DX opening UT Sunday July 3 from 0129 to 0217; a few Mexicans at first already reported.

88.1 at 0133, Spanish music, tropical, ``carnaval`` repeatedly refrained. But segué to English song, ``River So Wide``. Despite Es in progress from AZ/Sonora border area, suspect this be KWOU Woodward OK relaying KGOU Norman, during `Global Sojourn` show at 8-10 pm CDT Saturdays, including a playlist which may be what I heard but not obvious hits:
8:28 PM TITLE: Bomba Swing COMPOSER: W.Cepeda ARTIST: William Cepeda & Afrorican Jazz ALBUM: My Roots & Beyond
8:35 PM TITLE: River Jordan COMPOSER: n/a ARTIST: Peter Broggs ALBUM: Progressive Youth
88.1 at 0207 indeed ``Global Sojourn`` but with DX CCI in Spanish

100.3 at 0139, rock YL DJ, ``on the beat``. If a station slogan, the only two are nowhere near the PTA:
WMVN 100.3 SYLVAN BEACH NY HD RHYTHMIC CHR THE BEAT 6.0 kW 100.0 m
KATZ-FM 100.3 BRIDGETON MO HD URBAN CONTEMPORARY 100.3 THE BEAT 17.0 kW 120.0 m [near St Louis like 1600 KATZ]

More likely in the AZ/CA border PTA:
KJMB-FM 100.3 BLYTHE CA ADULT CONTEMPORARY KJMB FM 100.3 36.0 kWH only 17.0 m horizontal only

I do not see Beat mentioned on website but does not rule it out:
https://kjmbradio.com/ --- 1552 km = 964 mi
One thing I resist for lack of time is monitoring streams of stations later for something matchable.

100.7 at 0140, Catholic talk in English about Loreto. Nothing fits in AZ or NV, and the closest in CA is rather far-fetched:
K264CK KHOT-1250 100.7 FRESNO CA RELIGIOUS TEACHING IMMACULATE HEART RADIO 0.25 kW --- 1953 km = 1213 mi; and it takes some doing to audiblize against adjacent local 100.9 KGWA translator. Faked out by something nearby in KS or OK? No Catholix listed. Possibly religious but not exclusively Catholic tho seems unlikely, such as KWRD Highland Village TX north side of The Metroplex, a Salem outlet so presumably evangelical/Protestant. 375 km = 233 mi. 94.9 log below points to north TX.

102.1 at 0140, soft rock and talk about music, or CCI

94.9 at 0146, Eyemart Express ad, fade. I figure it`s a national ad but search leads right back to several locations in OK, and a few in adjacent states KS, MO, TX. OK has only two unlikely translators; KS has two distant full-powers in Concordia, Shawnee, but nearest is:
KIND 94.9 ELK CITY KS HOT AC 6.0 kW 82.9 m --- not the Elk City in OK! This is just west of Independence in the SE, not very close to Wichita where Eyemart has its only two KS stores. Nothing near Joplin MO. However, both TX locations hit close geographical correlations:
Eyemart Wichita Falls, near Electra:
KOLI 94.9 ELECTRA TX COUNTRY 94.9 THE OUTLAW 50.0 kW 150.0 m --- 279 km = 174 mi
and Eyemart Flower Mound, N side of The Metroplex, near Arlington:
KLTY 94.9 ARLINGTON TX HD CONTEMPORARY CHRISTIAN 94.9 KLTY 99.0 kW 508.0 m --- 413 km = 256 mi; so apparently extended groundwave on a channel normally vacant here, not even the KOSU Ponca City translator

93.5 at 0158 ads, CCI with KS, tostadas, González Meat Market in Lancaster, State Farm. 0200 ID for Rosamond-Lancaster-Palmdale, so:
KQAV 93.5 ROSAMOND CA CLASSIC HIP-HOP OLD SCHOOL 93.5 6.0 kW 27.0 m //KOSS 1380/K272FI 102.3/K296GX 107.1 --- 1841 km = 1144 mi

94.3 at 0209, ``The Duck, giveaways all summer``; CCI from song mixing Spanish and English; 0212 ``hits back to back 24 hours a day, 94-3``; 0217 rock, about a sex pill [so not Bott!], tickets to Six Flags [over something? not TX. Probably Magic Mountain as in L.A.], ``right here on The Duck, 94 days of summer`` and end of opening:
KDUC 94.3 BARSTOW CA RHYTHMIC CHR THE DUCK 4.6 kW 239.0 m --- 1735 km = 1078 mi (Glenn Hauser, Enid OK, WOR)

More sporadic E FM DX yet to be compiled:
July 4 at 1634-1907+ UT: NV, UT, WY, ID, MT
(Glenn Hauser, OK, WOR)

** VANUATU. 11835 & 7890, June 30 at 0706, R. Vanuatu gone again from harmonix, nor July 1 (Glenn Hauser, OK, WOR)

UNIDENTIFIED. 13745-13755, July 4 at 0616, sure sounds like weak DRM noise but nothing in skeds to account for it. Maybe China or Russia? Romania is on 13750 at other times in AM (Glenn Hauser, OK, WOR)

TIPS FOR RATIONAL LIVING

CANADA`S FOURTH OF JULY
https://www.michaelmoore.com/p/canadian-4th-of-july